

UNITED STATES PARTMENT OF COMMERCE United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

FILING DATE FIRST NAMED INVENTOR APPLICATION NO. ATTORNEY DOCKET NO 09/486,247 05/25/00 DEAR Т 8484-081-999 **EXAMINER** HM22/0711 PENNIE & EDMONDS FRONDA, C 1155 AVENUE OF THE AMERICAS ART UNIT PAPER NUMBER NEW YORK NY 10036-2711 1652 DATE MAILED: 07/11/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/486,247

Applicant(s)

Dear et al.

Examiner

Christian L. Fronda

Art Unit 1652



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on _____ 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X Claim(s) 1-15 4a) Of the above, claim(s) ______ is/are withdrawn from consideration. 5) Claim(s) is/are rejected. 6) Claim(s) 7) L Claim(s) ______ is/are objected to. are subject to restriction and/or election requirement. 8) X Claims 1-15 Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are objected to by the Examiner. 11) ☐ The proposed drawing correction filed on ______ is: a) ☐ approved b) ☐ disapproved. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) \square All b) \square Some* c) \square None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. _____ 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 18) Interview Summary (PTO-413) Paper No(s). 15) Notice of References Cited (PTO-892) 19) Notice of Informal Patent Application (PTO-152) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 20) Other: 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

Application/Control Number: 09/486,247

Art Unit: 1652

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claim 1, drawn to a protease-related protein comprising the amino acid sequence of FIGURE 1 or an amino acid sequence differing therefrom by one or more amino acids.

Group II, claims 2-6, drawn to a DNA encoding a protease-related protein, an expression plasmid, a transformant comprising said expression plasmid, and a process for preparing said protease-related protein.

Group III, claims 6, drawn to an antibody directed against a protease-related protein.

Group IV, claim 7, drawn to a method for detecting the keratinization of hair comprising application of a protease-related protein, a DNA encoding said protease-related protein, or an antibody directed against said protease-related protein.

Group V, claims 8 and 9, drawn to a method for the negative regulation of the keratinization of hair comprising administering a therapeutically effective amount of a protease-related protein.

Group VI, claims 10 and 11, drawn to a method for negative regulation of the keratinization of hair comprising administering a therapeutically effective amount of a protease-related protein in form of a polypeptide or nucleic acid expressing said protease-related protein; and additional substances which inhibit the proteins Ha3 and/or CK15.

Group VII, claim 12-14, drawn to a method for the positive regulation of the certification of hair comprising administering an inhibitor of a protease-related protein which is an antibody or an anti-sense oligonucleotide which inhibits the expression of the nucleic acid encoding the protease-related protein.

Group VIII, claim 15, drawn to a method for the positive regulation of the certification of hair comprising administering Ha3 and/or CK15 proteins or nucleic acids expressing said Ha3 and/or CK15 proteins.

SUPERVISORY FIXENT EXAMINER

TECHNOLOGY CENTER 1600

09486247.000

Application/Control Number: 09/486,247 Page 3

Art Unit: 1652

2. The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of the claimed invention is a protease-related protein comprising an amino acid sequence differing by one or more amino acids from the sequence depicted in FIGURE 1. However, Tindall et al. teach a human prostate-specific glandular kallikrein (hK2) which differs by one or more amino acids from the claimed amino acid sequence depicted in FIGURE 1 (see entire patent and SEQ ID NO:10).

Since Applicants have not contributed a special technical feature over the prior art in view of the teachings of Tindall et al., Groups I-VIII do not have a single general inventive concept and therefore lack unity of invention. Accordingly, Groups I-VIII are not so linked by the same or a corresponding special technical feature as to form a single general inventive concept.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

For Group IV the species are a protease-related protein, a DNA encoding a protease-related protein, and an antibody directed against a protease-related protein.

For Group V, the species are a protease-related protein and a DNA encoding a protease-related protein

For Group VI, the species are a protease-related protein and a DNA encoding a protease-related protein; and the inhibitor species are antibodies directed against Ha3 and CK15 proteins and antisense oligonucleotides which inhibit the expression of Ha3 and CK15 proteins. If Group VI is elected, applicants must elect either the protease-related protein or DNA encoding a protease-related protein and elect either antibodies directed against Ha3 and CK15 proteins or anti-sense oligonucleotides which inhibit the expression of Ha3 and CK15 proteins.

For Group VII, the species are antibody directed against a protease-related protein and an antisense oligonuleotide which inhibits the expression a protease-related protein.

For Group VIII, the species are Ha3 and CK15 proteins and nucleic acids encoding Ha3 and CK15 proteins.

Application/Control Number: 09/486,247 Page 4

Art Unit: 1652

4. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features because the species for each of the Groups listed above are unrelated and are chemically distinct entities.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Nucleotide Sequence and/or Amino Acid Sequence Disclosures

6. This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the following reasons:

Nucleotide sequences and amino acid sequences disclosed in the figures and recited in the claims are essential subject matter to the invention and require corresponding SEQ ID Nos, computer readable form of a "Sequence Listing", and a paper copy of the "Sequence Listing" in order to comply with the requirements of 37 CFR 1.821 through 1.825.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L. Fronda whose telephone number is (703)305-1252. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at (703)308-3804. The fax phone number for this Group is (703)308-0294. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is (703)308-0196.

CLF

PONNATHAPU ACHUT MURTHY SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600



UNITED STITUTES DEPARTMENT OF COMMERCE Patent and Trademark Office COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/486,247	5/25/2000	Dear et al.	8484-081-999

EXAN	AINER
Christian Fronda	
ART UNIT	PAPER NUMBER
1652	9

Please find below a communication from the EXAMINER in charge of this application

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice to Comply With Requirements for Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures.

This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Nucleotide sequences and amino acid sequences disclosed in the figures and recited in the claims are essential subject matter to the invention and require corresponding SEQ ID Nos, computer readable form of a "Sequence Listing", and a paper copy of the "Sequence Listing" in order to comply with the requirements of 37 CFR 1.821 through 1.825.

APPLICANT IS GIVEN A ONE MONTH EXTENDABLE PERIOD WITHIN WHICH TO COMPLY WITH THE SEQUENCE RULES, 37 CFR 1.821-1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136. In no case may an applicant extend the period for response beyond the six month statutory period. Applicant is requested to return a copy of the attached Notice to Comply with the response.

Any inquiry concerning this communication should be directed to Examiner Christian Fronda, Art Unit 1652, whose telephone number is (703)305-1252.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703)308-0196.

PONNATHAPU ACHUT MURTHY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600

Application No.:<u>09/486,247</u>

14

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
	7. Other:
Аp	plicant Must Provide:
X	An initial computer readable form (CRF) copy of the "Sequence Listing".
X	An initial paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
Fo	r questions regarding compliance to these requirements, please contact:
Fo	r Rules Interpretation, call (703) 308-4216 r CRF Submission Help, call (703) 308-4212 tentIn Software Program Support
	Technical Assistance703-287-0200 To Purchase Patentin Software703-306-2600
	PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY